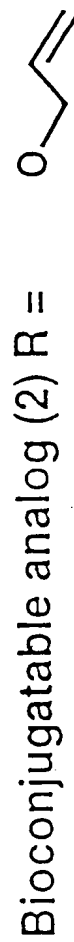
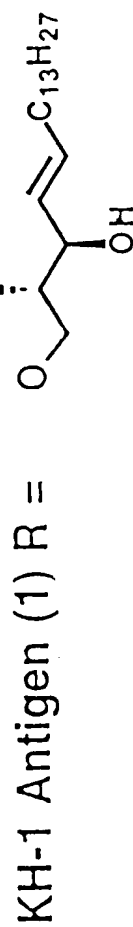
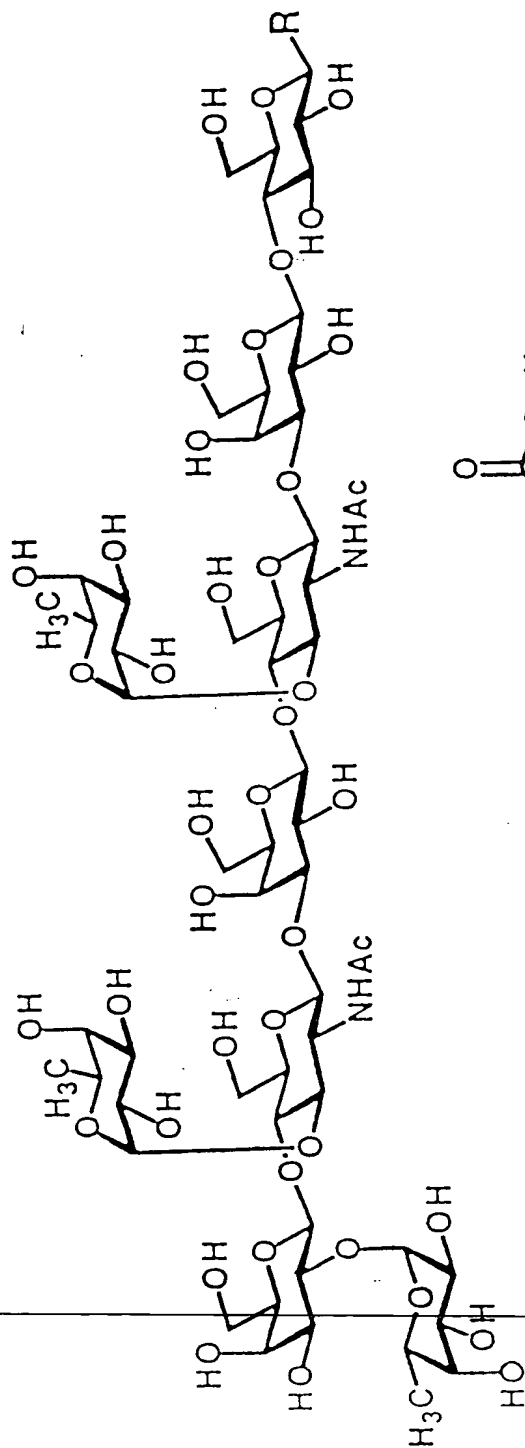


FIG. 1



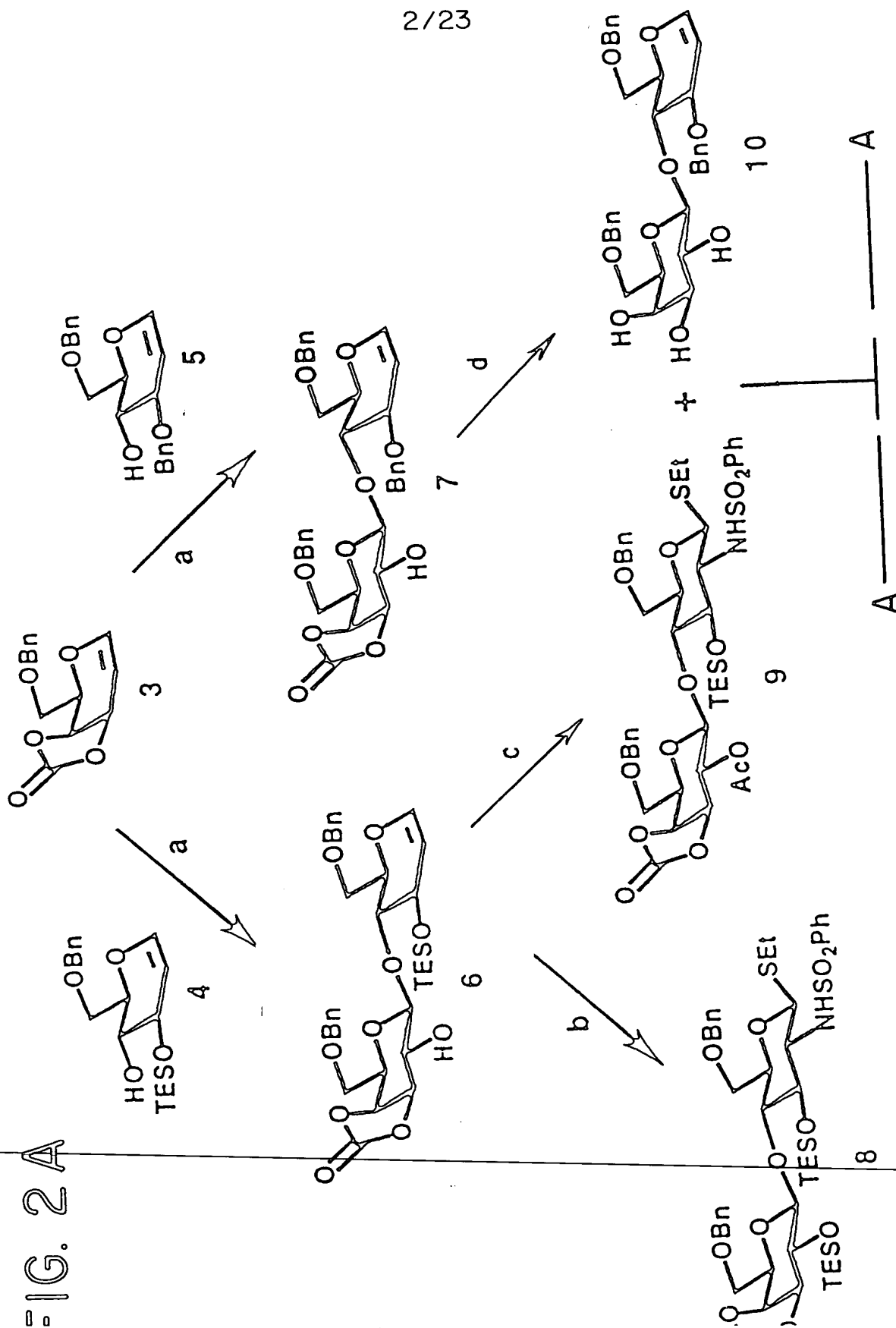


FIG. 2B

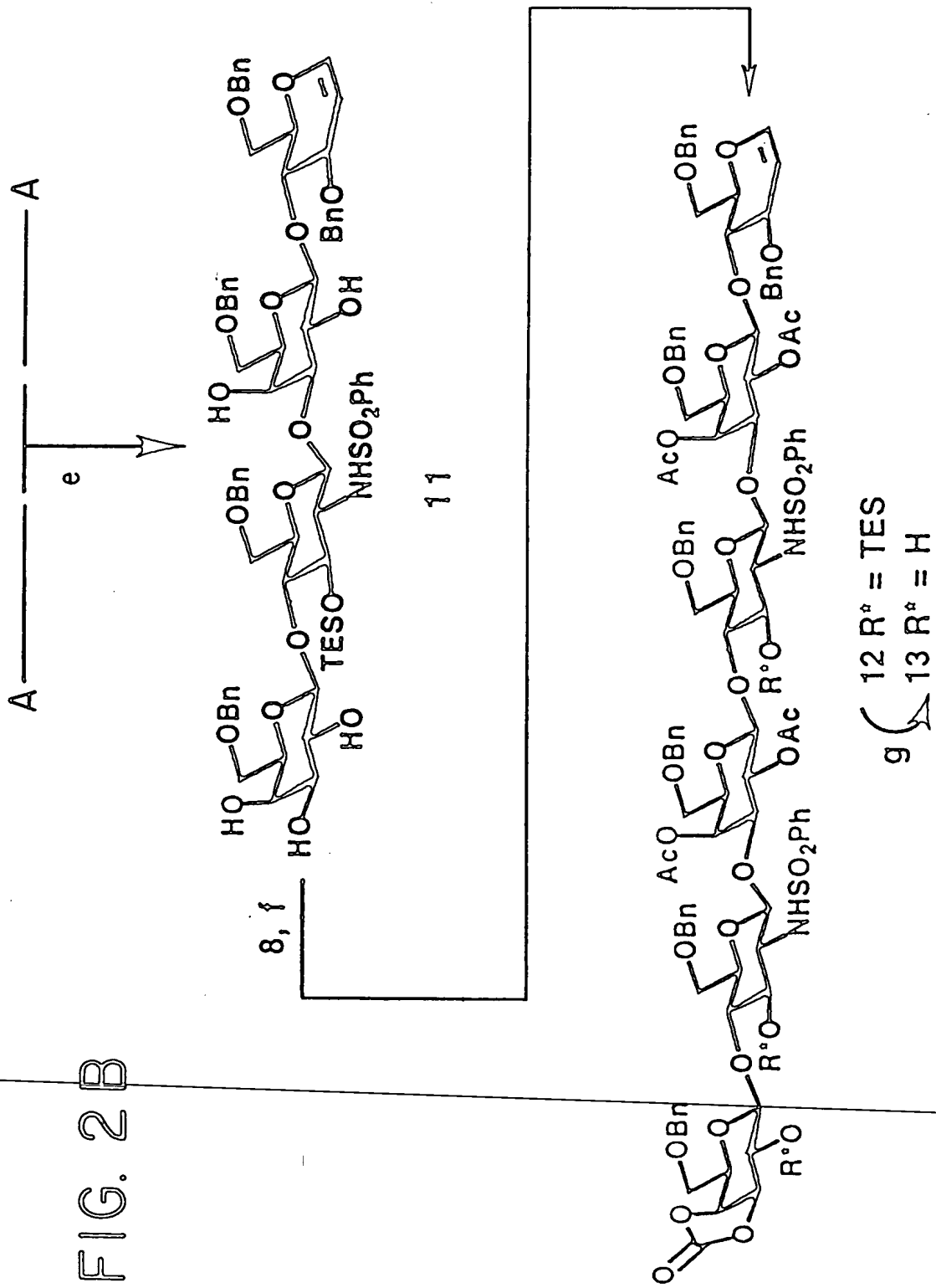
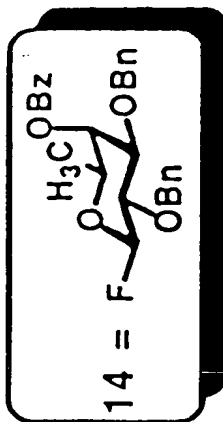
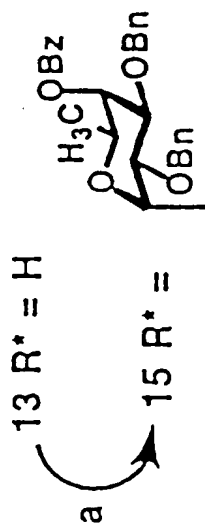
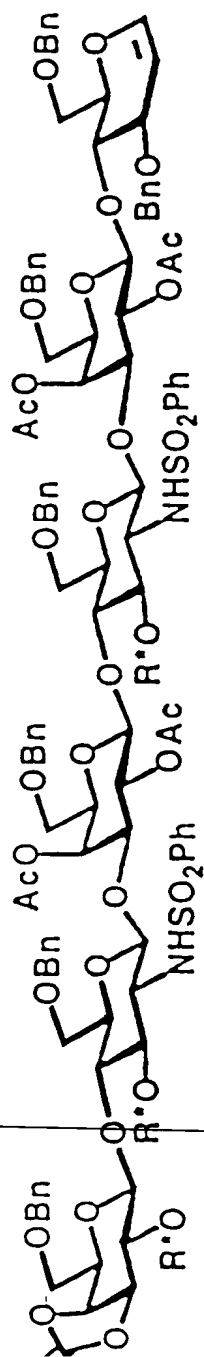


FIG. 3A



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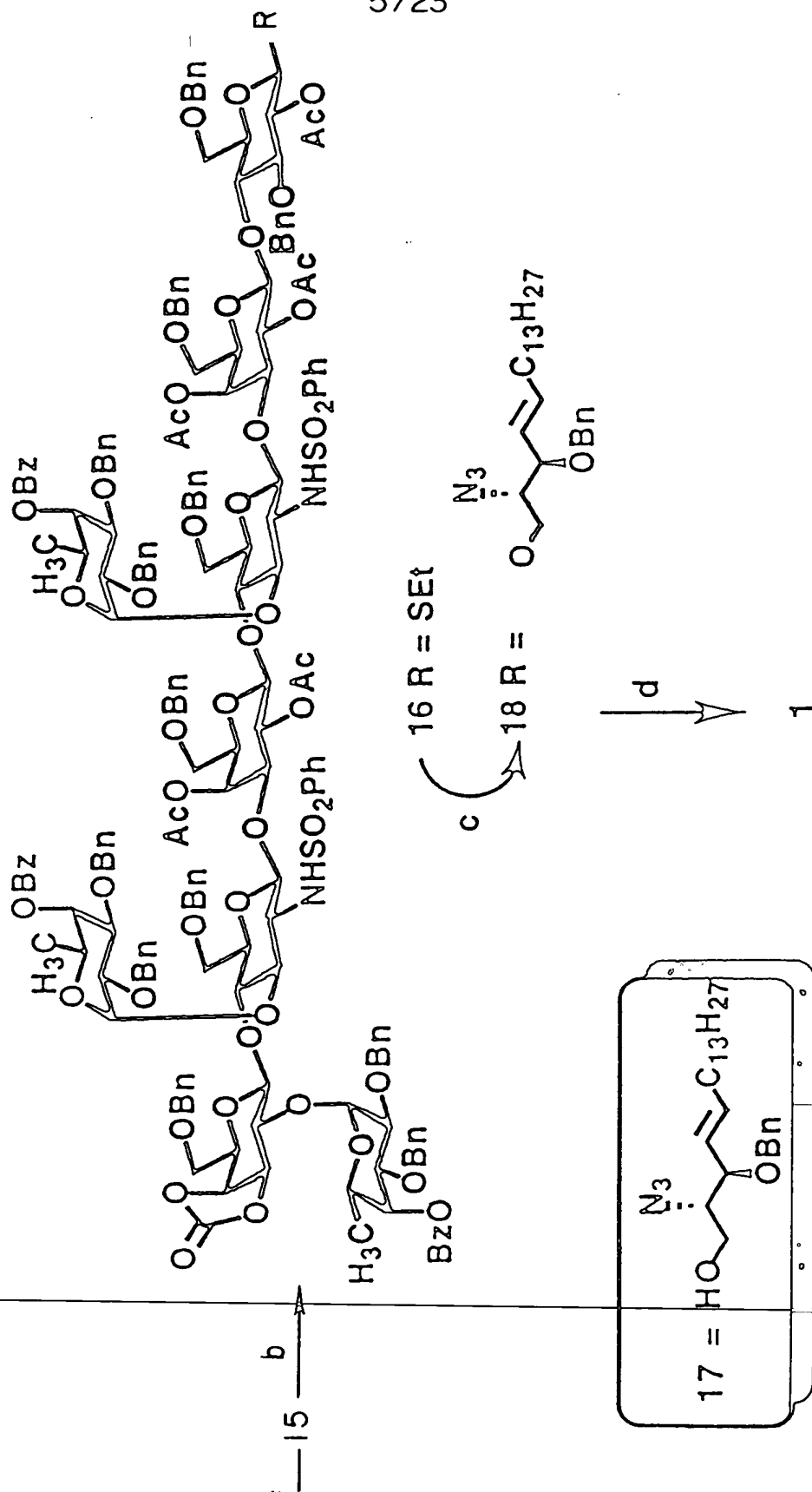
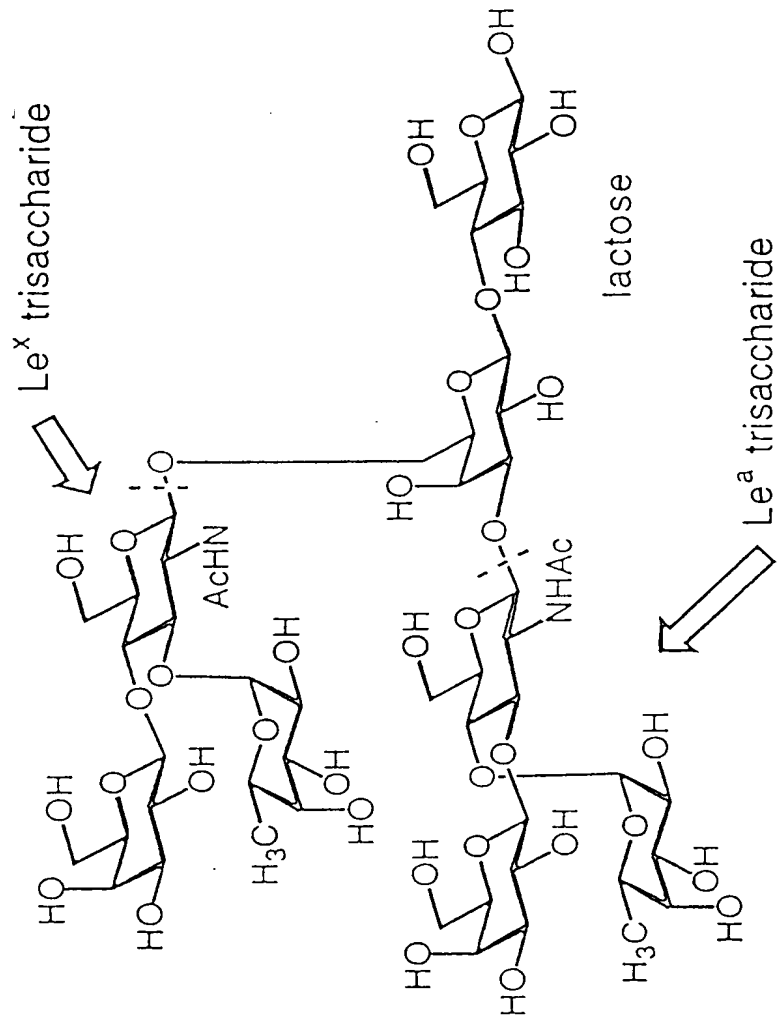
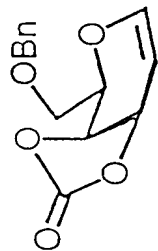


FIG. 4



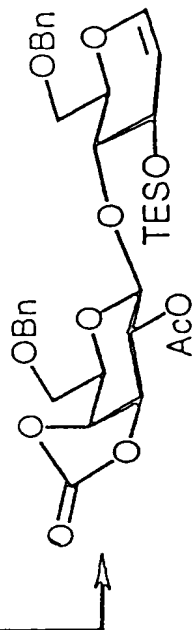
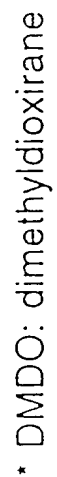
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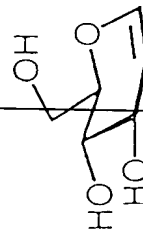
- 1) DMSO
- 2) 6, ZnCl₂

3) $\text{Ac}_2\text{O} / \text{Et}_3\text{N} / \text{DMAP}$



3

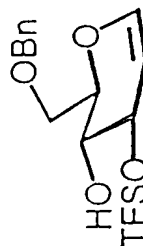
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5



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TESCI
Imidazole

FIG. 5C

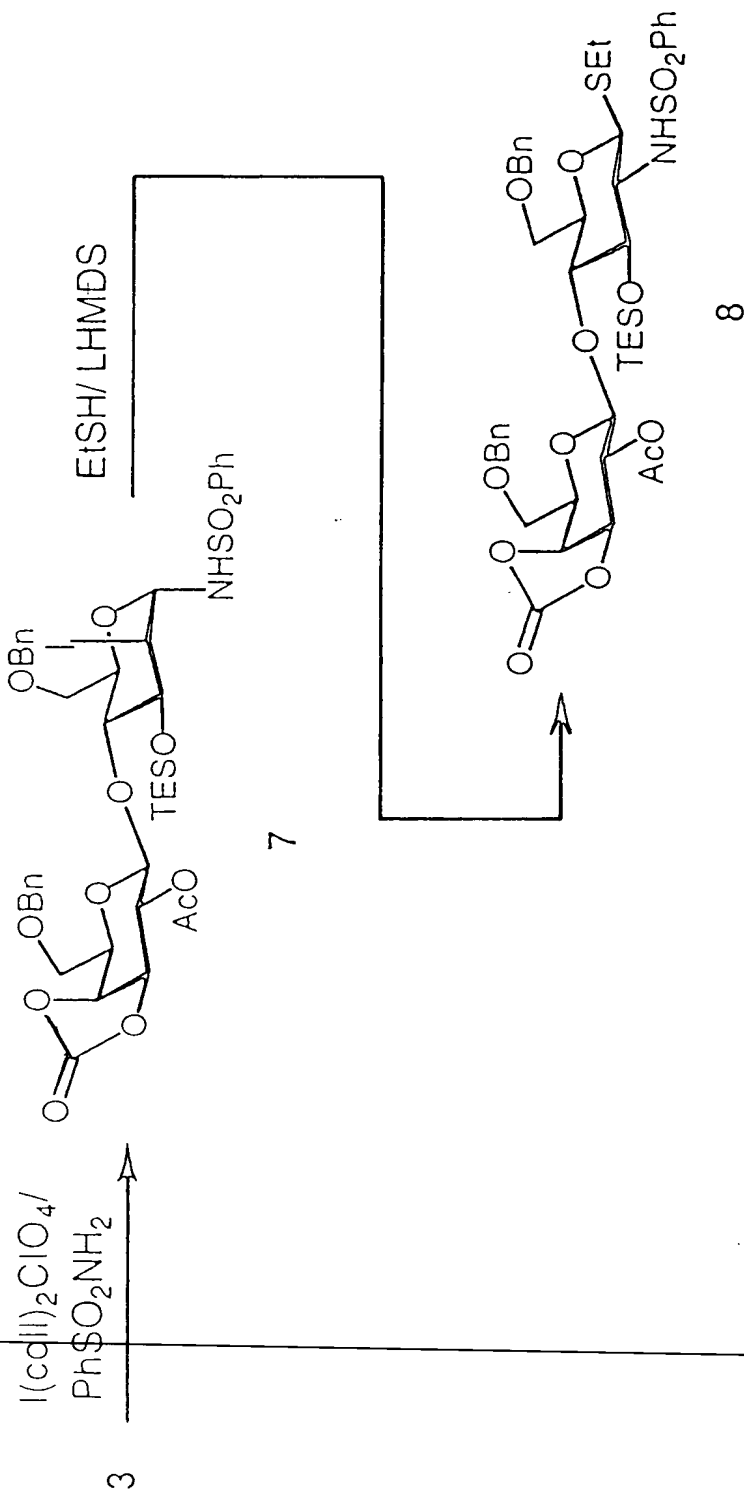
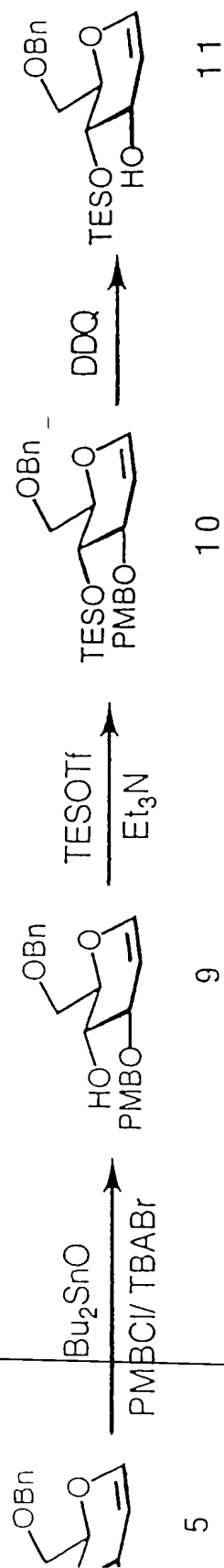


FIG. 6A



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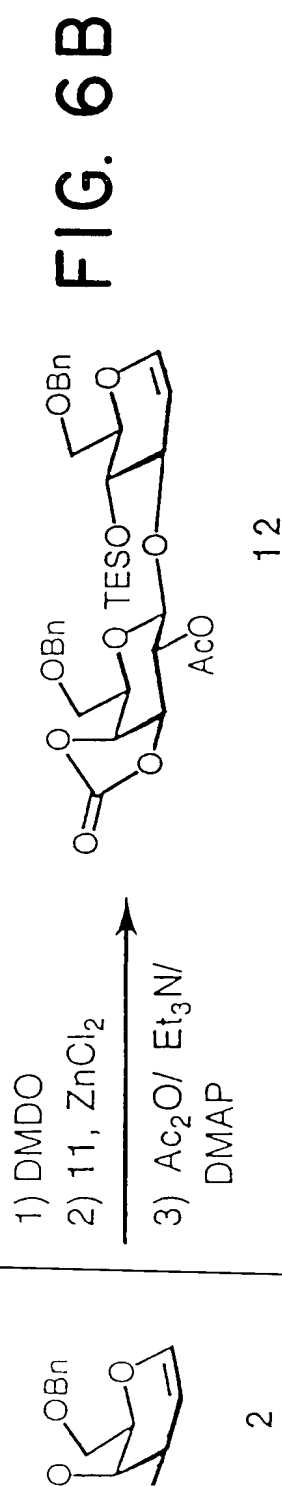


FIG. 6B

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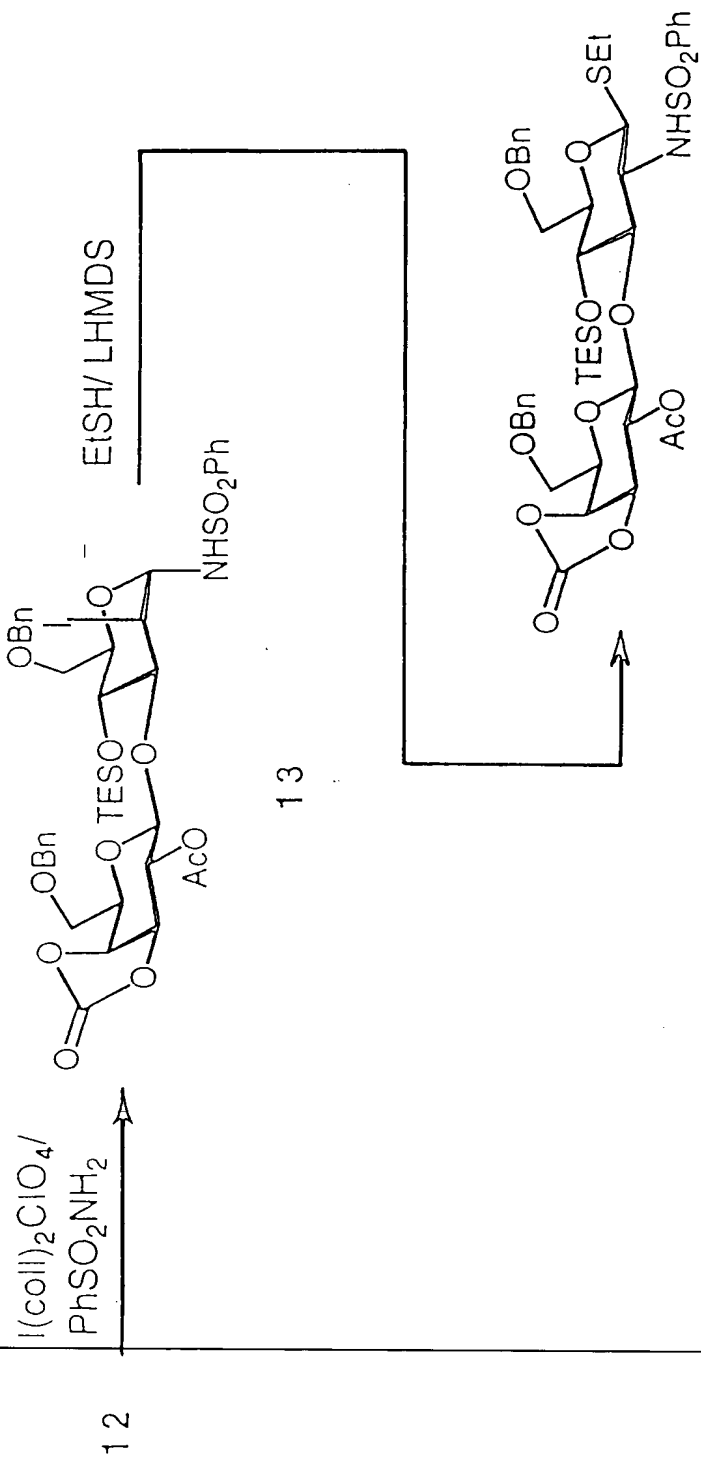
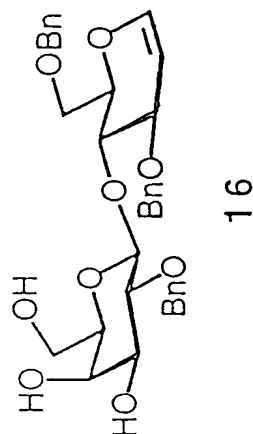
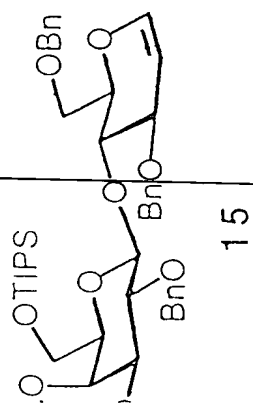


FIG. 7A



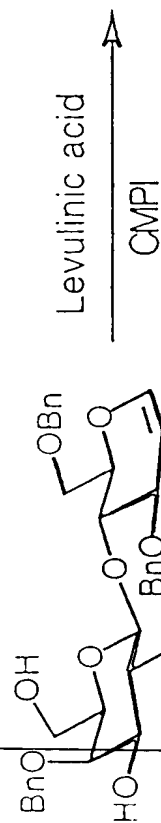
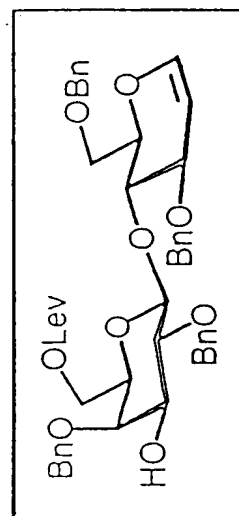
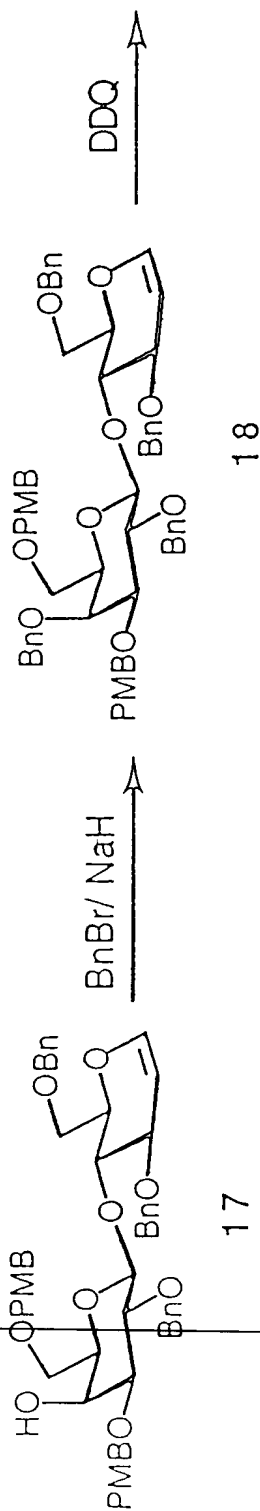
TBAF/MeONa

(Bu₃Sn)₂O/ Bu₂SnO,
then PMBCl/ TBABr

II/23

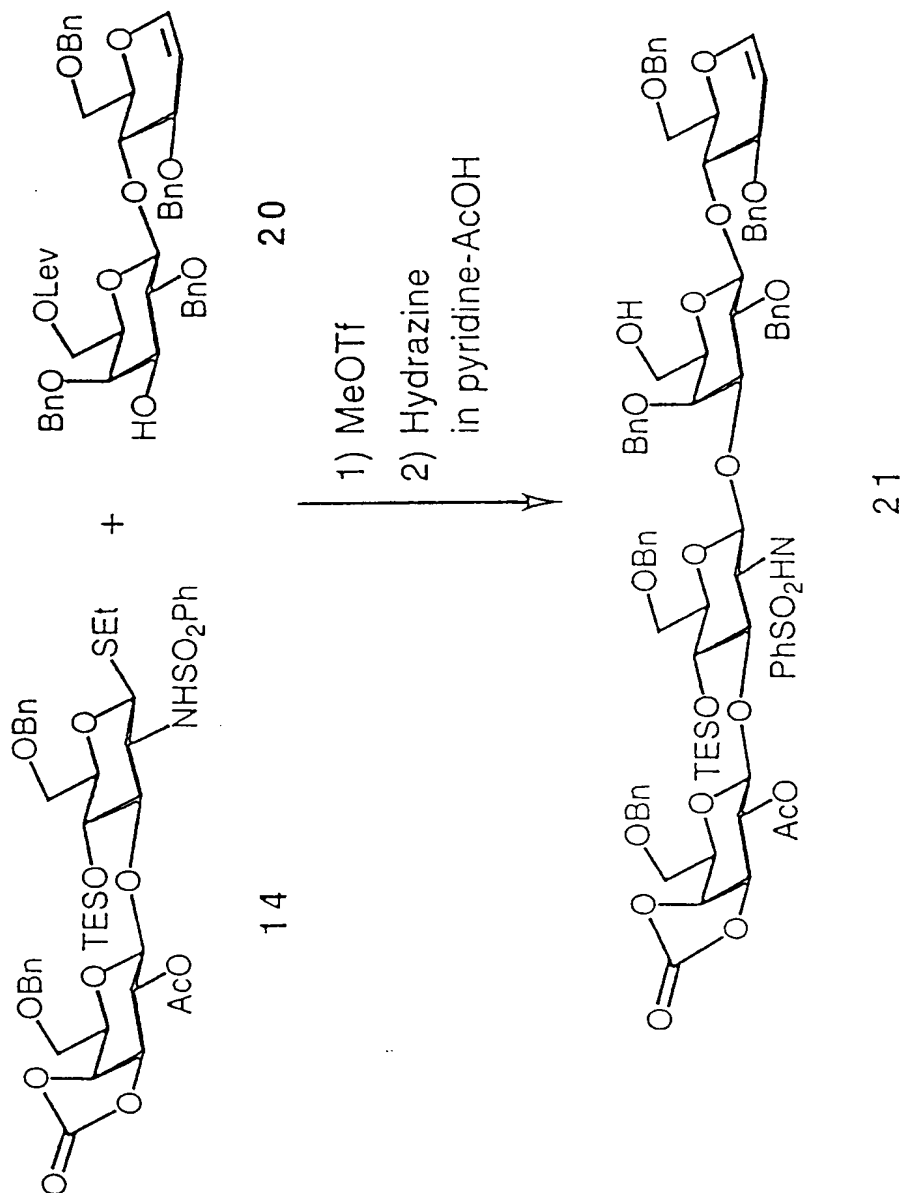
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FIG. 7B



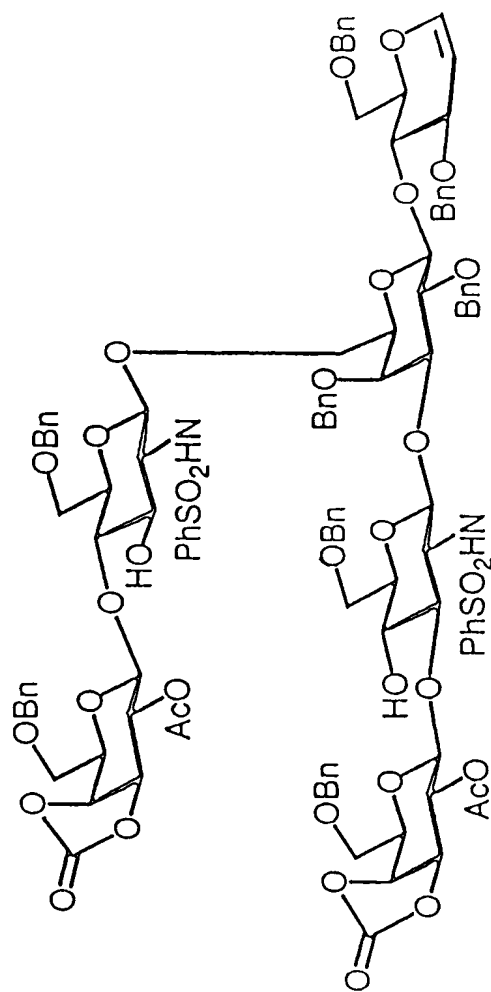
*CMPI: 2-Chloromethyl
pyridinium iodide

FIG. 8

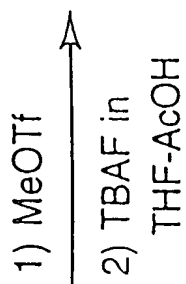


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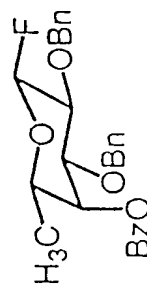
FIG. 9A



22



8 + 21



23

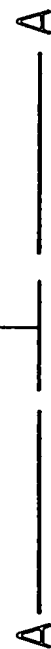
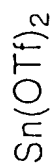


FIG. 9B

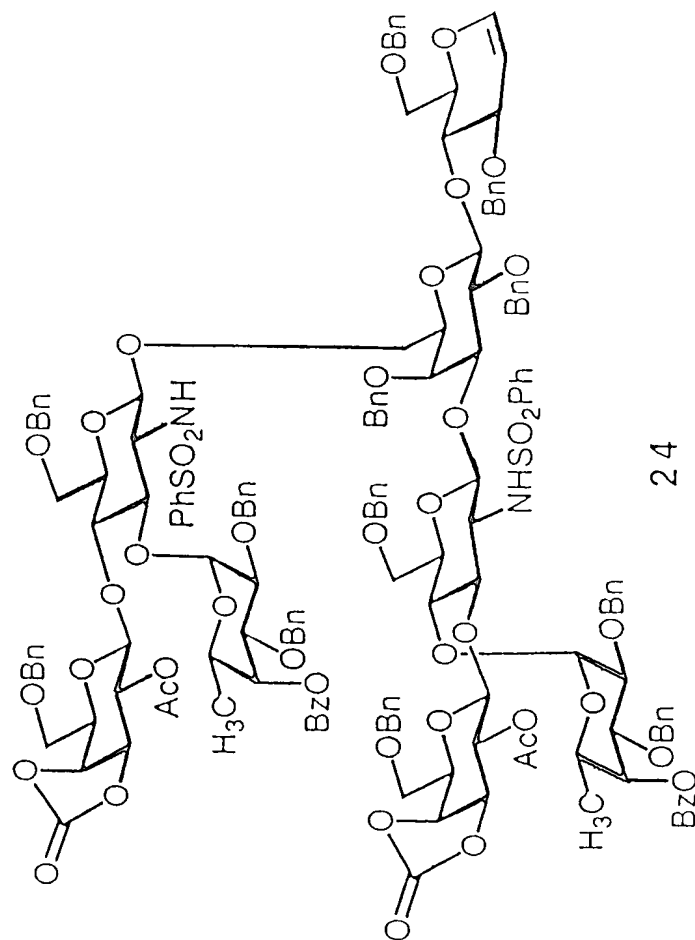
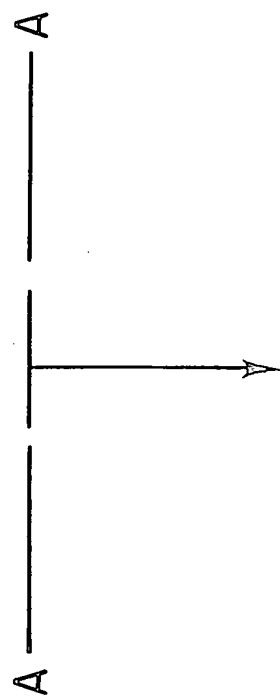
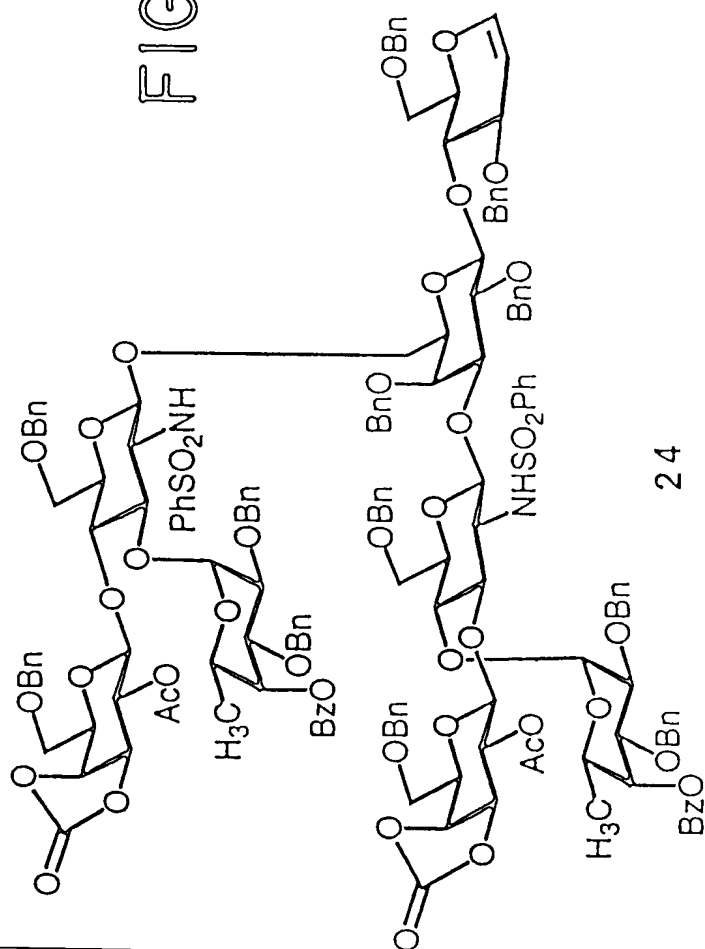


FIG. 10A

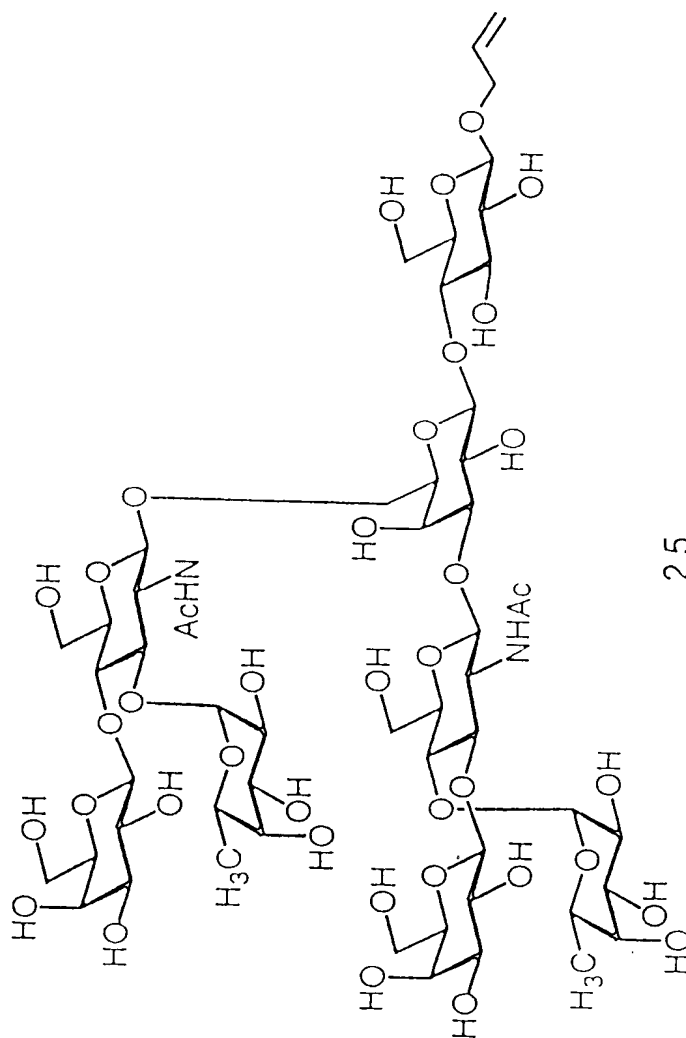
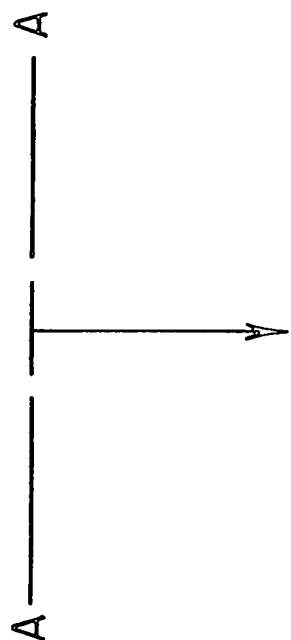


24

- 1) Na/ NH₃, then
Ac₂O/ Et₃N/ DMAP
- 2) DMDO, then allyl alcohol
- 3) NaOMe

A ————— A

FIG. 10B



25

FIG. 11A

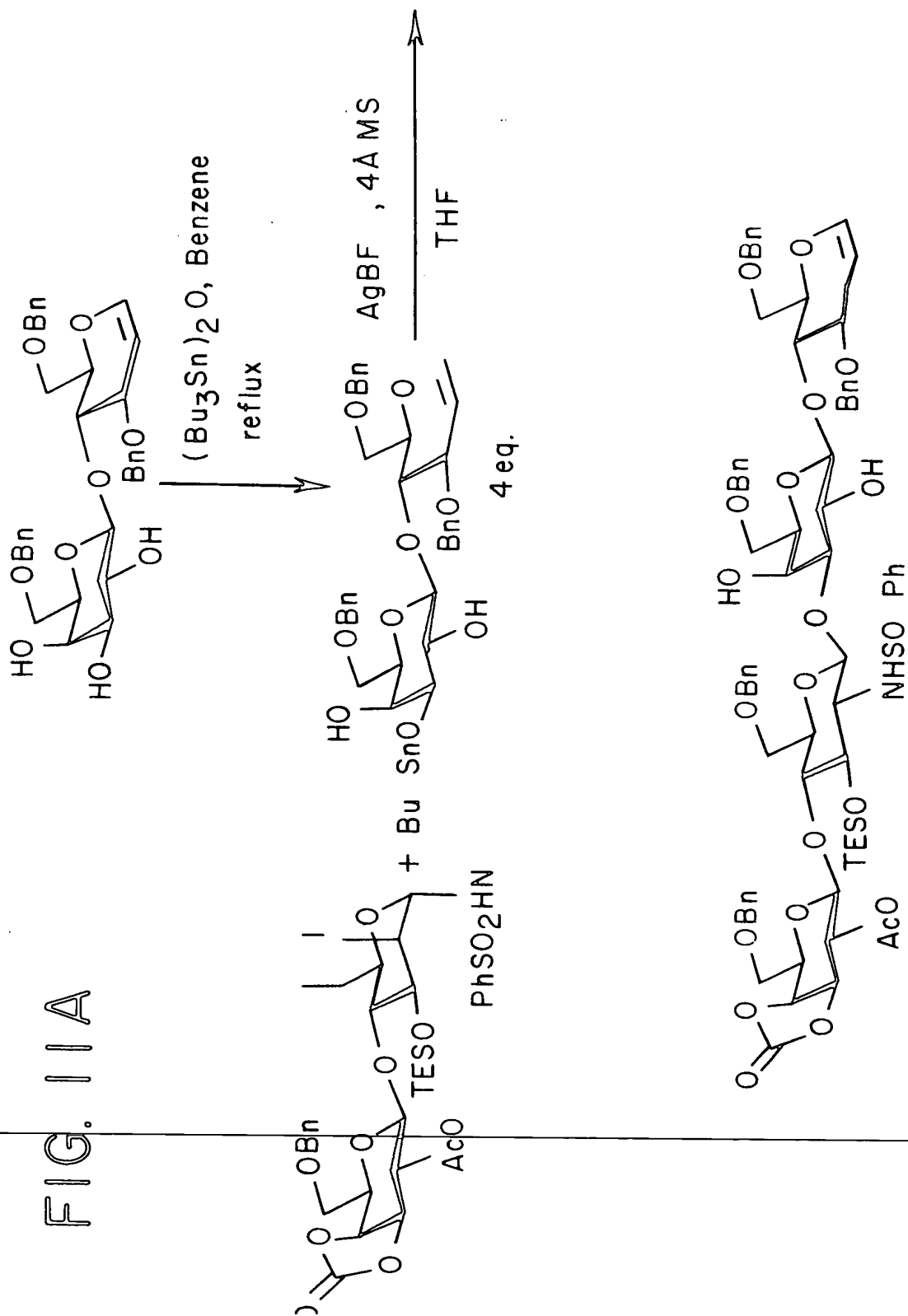
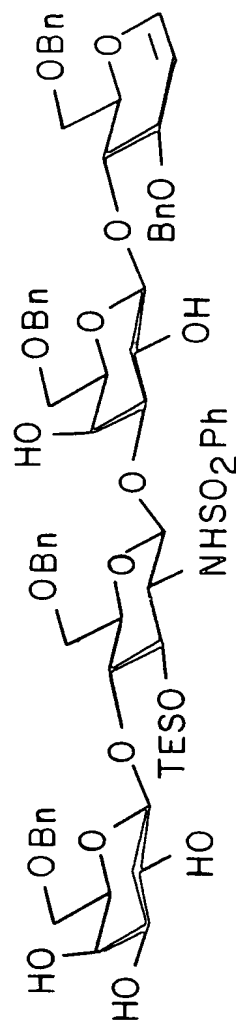
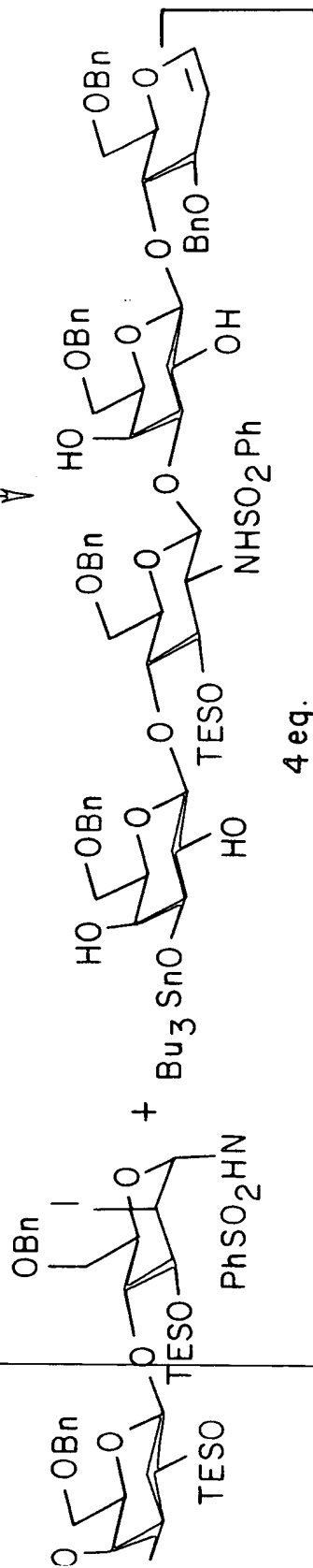


FIG. 11B

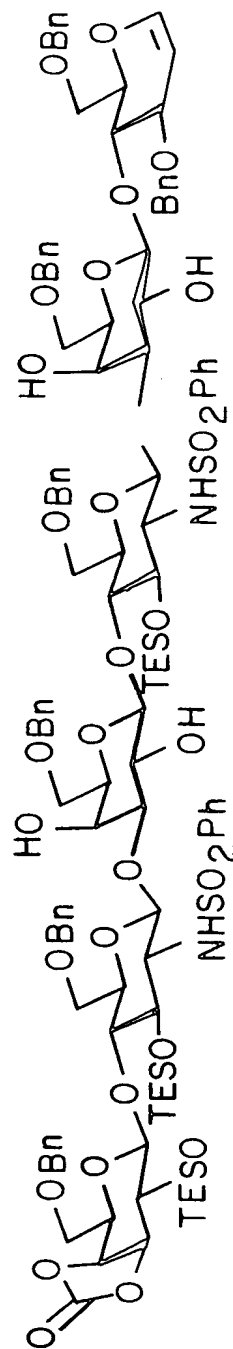


(Bu Sn) O, Benzene
reflux



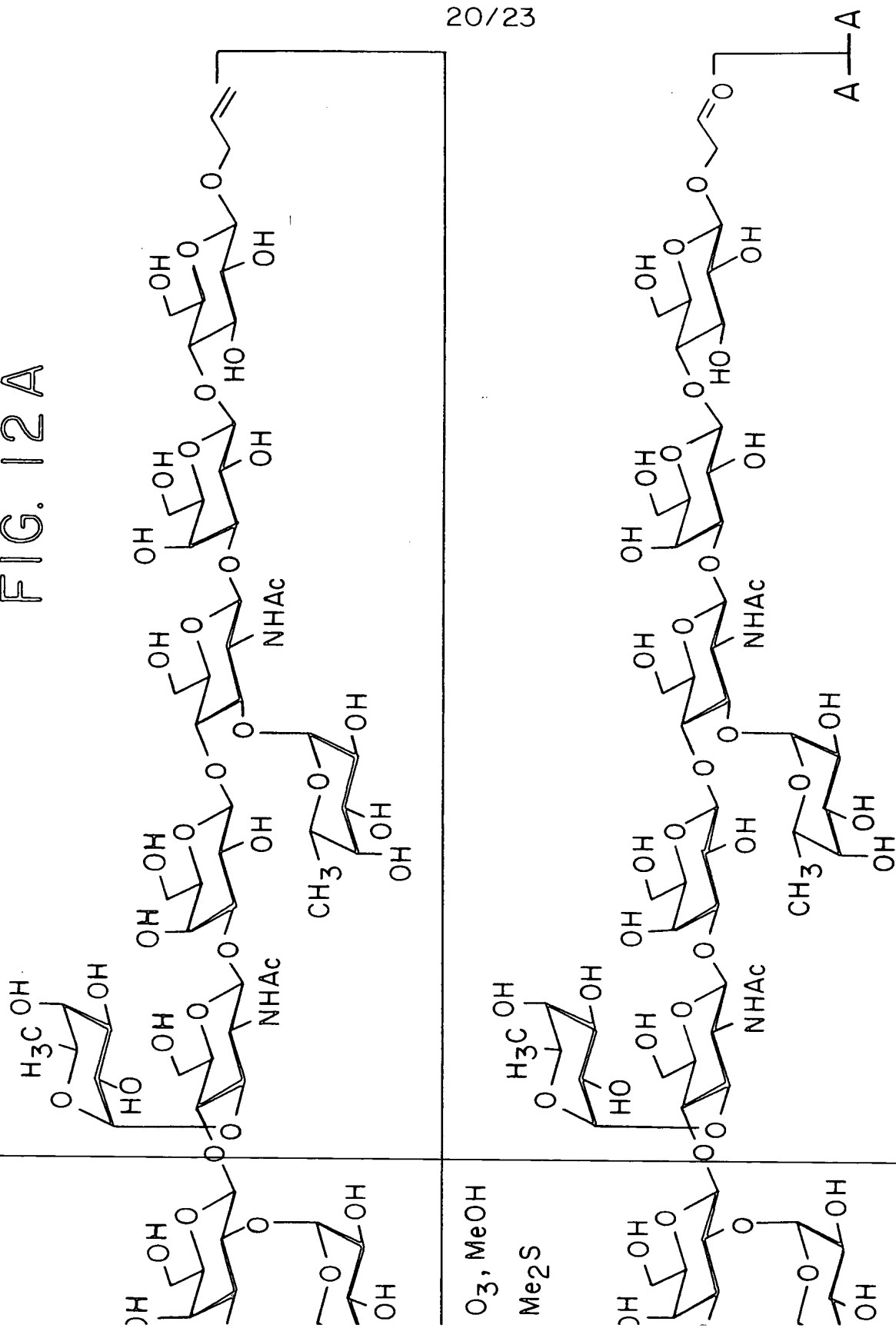
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AgBF₄, 4 Å MS
THF



55%

AN-IG-LE



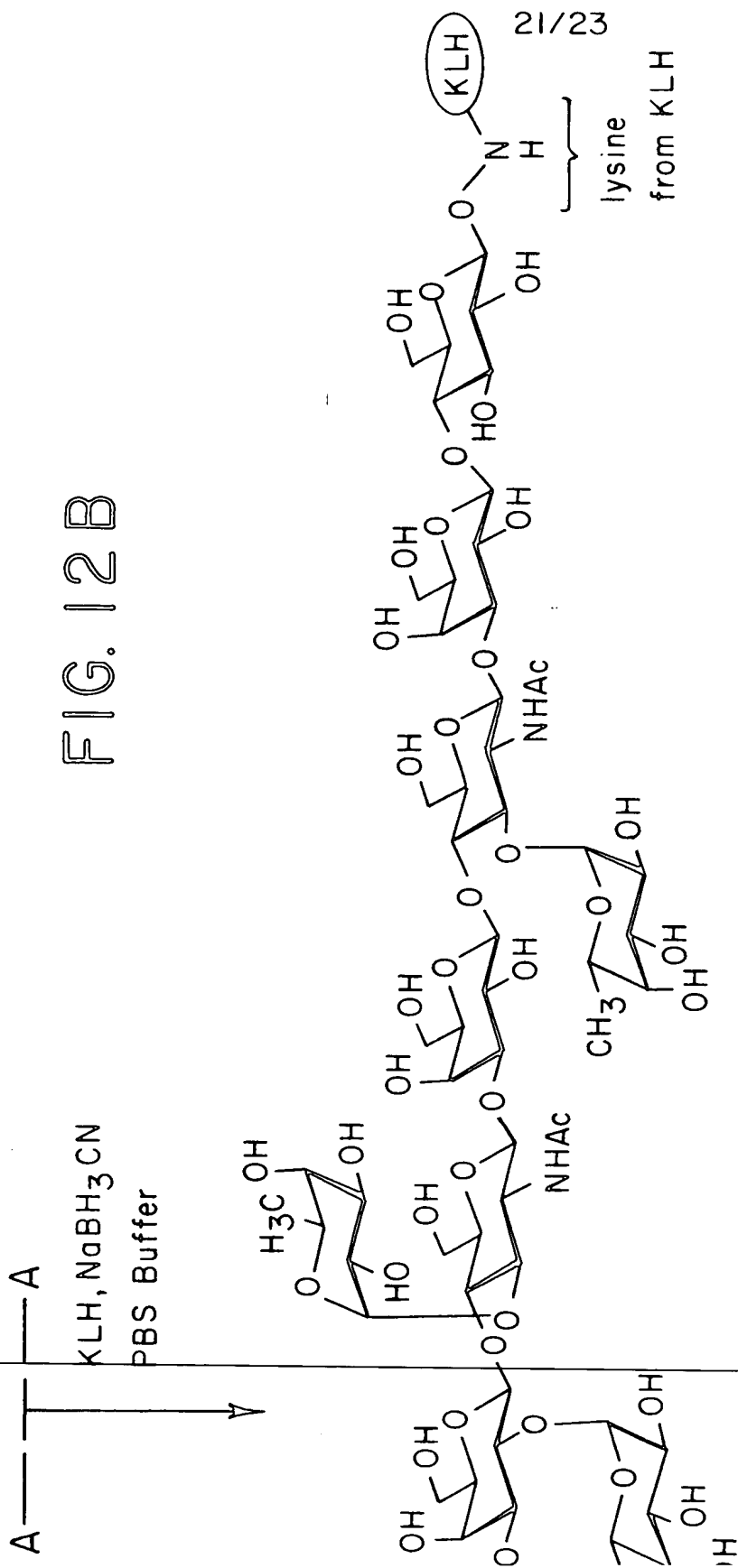


FIG. 13A

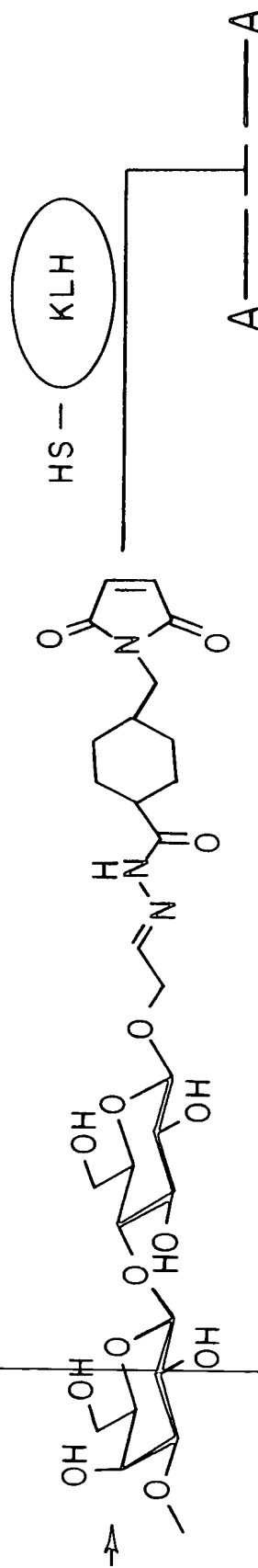
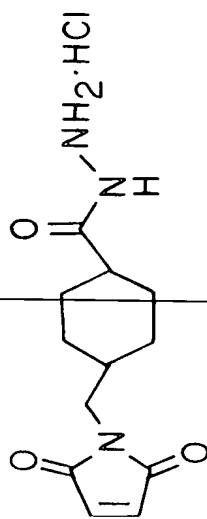
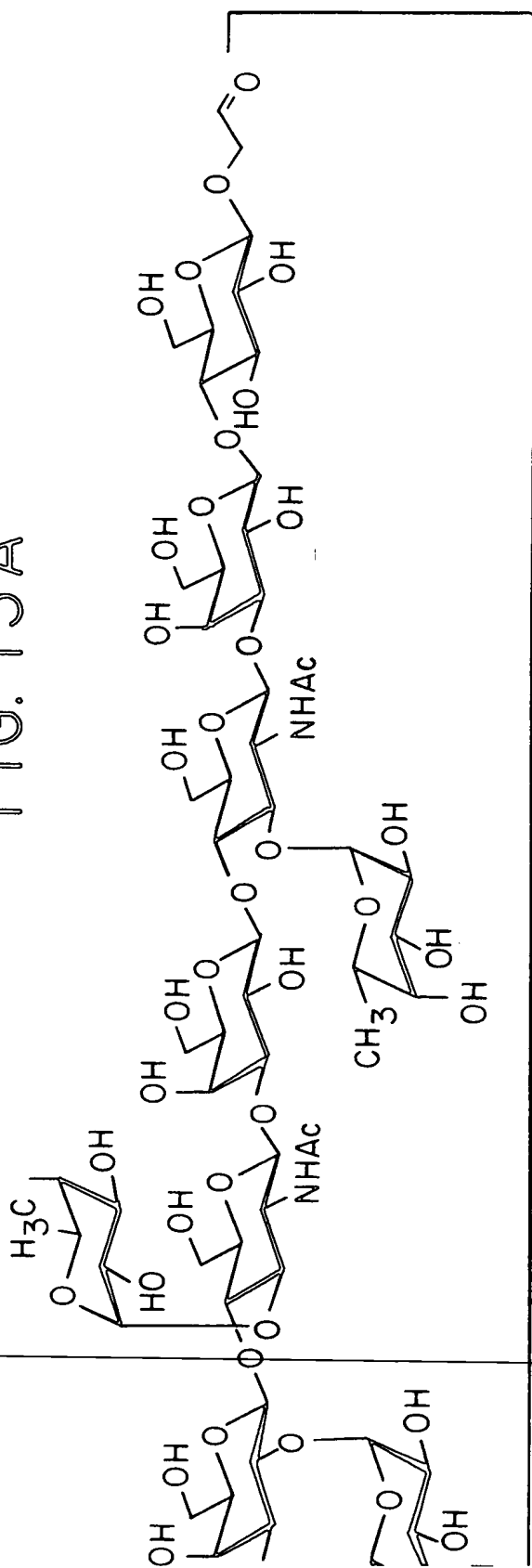


FIG. 13 B

